

IN THE CLAIMS

This listing of claims replaces all prior listings:

1. (Currently Amended) An information processing apparatus for transmitting information to a transmission party via a network in predetermined information units, said information processing apparatus comprising:
 - a first dividing unit for dividing a first information into a first set of information units;
 - a first transmission unit for transmitting first information to said transmission party through said network via said first set of information units;
 - a receiving unit for receiving, from said transmission party, indication about the reception of said first set of information units transmitted by said first transmission unit;
 - a clocking unit for clocking a time from when said first information is transmitted;
 - a determination unit for determining whether or not the time clocked by said clocking unit exceeds a reference time value associated with said first information;
 - a second dividing unit for dividing a second each of said first set of information, which follows said first information units, into a second set of information units; and
 - a second transmission unit for transmitting said second set of information units when said indication is received or when said indication is not received within said reference time value;
 - a setting unit for setting a flag indicating that the time clocked by said clocking unit exceeds said reference time value when determined by said determination unit; and
 - a writing unit for writing said flag into each of said second set of information units which are transmitted by said second transmission unit when said flag is set by said setting unit.
2. (Previously Presented) An information processing apparatus according to claim 1, wherein said first and second information comprise information packets and said first set of information units and said second set of said information units comprise packets information fragments.
3. (Cancelled)

4. (Cancelled)

5. (Currently Amended) An information processing apparatus according to claim [[4]] 1, further comprising:

~~a writing unit for writing said flag into said second information which is transmitted by said second transmission unit when said flag is set by said setting unit; and~~

a clearing unit for clearing said flag when all of said second sets set of said ~~second information~~ information units which form ~~one of said first information or second information units~~ are transmitted to said transmission party.

6. (Currently Amended) An information processing method for use with an information processing apparatus for transmitting information to a transmission party via a network in predetermined information units, said information processing method comprising:

a first dividing step for dividing a first information into a first set of information units;

a first transmission step of transmitting first information to said transmission party through said network via said first set of information units;

a receiving step of receiving, from said transmission party, indication about the reception of said first set of information units transmitted in said first transmission step;

a clocking step for clocking a time from when said first information is transmitted;

a determination step for determining whether or not the time clocked in said clocking step exceeds a reference time value associated with said first information;

a second dividing step for dividing a second ~~each of said first set of information, which follows said first information~~ units, into a second set of information units; and

a second transmission step of transmitting said second set of information units when said indication is received or when said indication is not received within said reference time value;
and

a setting step for setting a flag indicating that the time clocked in said clocking step exceeds said reference time value when determined in said determination step; and

a writing unit for writing said flag into each of said second set of information units which are transmitted by said second transmission unit when said flag is set by said setting unit.

7. (Currently Amended) A computer-readable medium encoded with a computer-readable program in a case where a computer controls an operation of transmitting information to a transmission party via a network in predetermined information units, said program comprising instructions for :

a first dividing step for dividing a first information into a first set of information units;

a first transmission step of transmitting first information to said transmission party through said network via said first set of information units;

a receiving step of receiving, from said transmission party, indication about the reception of said first set of information units transmitted in said first transmission step;

a clocking step for clocking a time from when each of said first information units is transmitted;

a determination step for determining whether or not the time clocked in said clocking step exceeds a reference time value associated with said first information;

a second dividing step for dividing a second ~~each of said first set of~~ information, which follows said first information units, into a second set of information units; and

a second transmission step of transmitting said second set of information units when said indication is received or when said indication is not received within said reference time value; and

a setting step for setting a flag indicating that the time clocked in said clocking step exceeds said reference time value when determined in said determination step; and

a writing unit for writing said flag into each of said second set of information units which are transmitted by said second transmission unit when said flag is set by said setting unit.

8. (Cancelled)

9. (Currently Amended) An information processing apparatus for receiving an information packet, transmitted through a network, via ~~individual information packets~~ fragments which are created by dividing said information packet ~~individual first packets which are in turn created by dividing said received information~~, said information processing apparatus comprising:

a receiving unit for receiving said ~~second~~ information packets fragments via said network;

a storage unit for storing; ~~for each of said corresponding first packets~~; each of said ~~second~~ information packets fragments received by said receiving unit;

an assembling unit for assembling said ~~second packets~~ information fragments stored in said storage unit to reproduce into each of said corresponding first information packet before being divided when said indication is received about the reception of said information fragments;

a first deletion unit for deleting each of said ~~second packets~~ information fragments, stored in said storage unit, when said ~~each of said second packets~~ information fragments [[is]] are assembled to reproduce said ~~corresponding individual first~~ information packet by said assembling unit;

a determination unit for determining whether or not a predetermined flag is contained in said ~~second packets~~ information fragments received by said receiving unit; and

a second deletion unit for deleting said ~~second packets~~ information fragments stored in said storage unit, corresponding to said first information packet which is immediately prior to another transmitted first information packet whose corresponding ~~second packets~~ information fragments are determined to contain flags.

10. (Currently Amended) An information processing method for use with an information processing apparatus for

receiving an information packet, transmitted through a network, [[for]] via individual ~~second packets~~ information fragments which are created by dividing individual said first packets information packet which are in turn created by dividing said received information, said information processing method comprising:

a receiving step of receiving said ~~second packets~~ information fragments and indication about the reception of said information fragments via said network;

a storing step of storing, for each of said ~~corresponding first packets~~; information fragments ~~each of said second packets~~ received in said receiving step;

an assembling step of assembling said ~~second-packets~~ information fragments, stored in said storing step, into ~~each-of~~ said corresponding first information packet before being divided when said indication is received about the reception of said information fragments;

a first deletion step of deleting each of said ~~second-packets~~ information fragments, stored in said storing step, when said ~~each-of~~ said ~~second-packets~~ information fragments [[is]] are assembled to reproduce said corresponding individual first packets information packet in said assembling step;

a determination step of determining whether or not a predetermined flag is contained in said ~~second-packets~~ information fragments received in said receiving step; and

a second deletion step of deleting said ~~second-packets~~ information fragments, stored in said storing step, corresponding to said first information packet which is immediately prior to another transmitted first-information packet whose corresponding ~~second-packets~~ information fragments are determined to contain flags.

11. (Currently Amended) A computer-readable medium a computer-readable program for causing a computer to perform an operation of receiving an information packet, transmitted through a network, [[for]] via individual second-packets information fragments which are created by dividing individual said first-packets information packet ~~which are in turn created by dividing said received information~~, said information processing method comprising:

a receiving step of receiving said ~~second packets~~ information fragments and indication about the reception of said information fragments via said network;

a storing step of storing, for each of said corresponding first-packets; information fragments ~~each-of~~ said ~~second-packets~~ received in said receiving step;

an assembling step of assembling said ~~second-packets~~ information fragments, stored in said storing step, into ~~each-of~~ said corresponding first information packet before being divided when said indication is received about the reception of said information fragments;

a first deletion step of deleting each of said ~~second-packets~~ information fragments, stored in said storing step, when said ~~each-of~~ said ~~second-packets~~ information fragments [[is]] are assembled to reproduce said corresponding individual first packets information packet in said assembling step;

a determination step of determining whether or not a predetermined flag is contained in said ~~second-packets~~ information fragments received in said receiving step; and

a second deletion step of deleting said ~~second-packets~~ information fragments, stored in said storing step, corresponding to said ~~first~~ information packet which is immediately prior to another transmitted ~~first-information~~ packet whose corresponding ~~second-packets~~ information fragments are determined to contain flags.

12. (Cancelled)

13. (Currently Amended) An information processing apparatus according to claim 1, ~~further comprising:~~

~~a clocking unit for clocking the time from when said transmission of each unit of said first set of information units is started; and~~

~~a determination unit for determining whether or not the time clocked by said clocking unit exceeds a reference value;~~

wherein,

the first transmission unit retransmits said a unit of said first ~~set of~~ information units when said determination unit determines that the time clocked by said clocking unit does not exceed said reference value ~~and transmits another unit of said first set of information units when said determination unit determines that the time clocked by said clocking unit exceeds said reference value~~, in a case where said indication received by said receiving unit indicates that said transmission party has not yet received said unit of said ~~first set of~~ information units.

14. (Currently Amended) An information processing method according to claim 6, ~~further comprising:~~

~~a clocking step for clocking the time from when said transmission of each unit of said first set of information units is started; and~~

~~a determination step for determining whether or not the time clocked by said clocking unit exceeds a reference value;~~

wherein,

a unit of said first ~~set of~~ information units is retransmitted when that the time clocked by said clocking unit is determined not to exceed said reference value ~~and another unit of said first set of information units is transmitted when said time clocked by said clocking unit is determined to exceed said reference value~~, in a case where said indication received by said receiving unit indicates that said transmission party has not yet received said unit of said first set of information units.

15. (Currently Amended) A computer-readable medium having recorded thereon encoded with a computer-readable program according to claim 7, further ~~comprising:~~

~~a clocking step for clocking the time from when said transmission of each unit of said first set of information units is started; and~~

~~a determination step for determining whether or not the time clocked by said clocking unit exceeds a reference value;~~

wherein,

a unit of said first set of information units is retransmitted when that the time clocked by said clocking unit is determined not to exceed said reference time value ~~and another unit of said first set of information units is transmitted when said time clocked by said clocking unit is determined to exceed said reference value~~, in a case where said indication received by said receiving unit indicates that said transmission party has not yet received said unit of said first set of information units.

16. (New) An information processing apparatus according to claim 1, wherein said first and/or second information units include a clock information for creating a time required to reproduce said first and/or second information units.